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TEST REPORT

(시 험 성 적 서)

신청기관 (인) APPLICANT					
주소 (한글) : 울산광역시 남구 처용로 260-257 ADDRESS (ENGL.) : 260-257, Cheoyong-ro, Nam-gu, Ulsan, Korea					
시험성적서 번호	(REPORT	NO.) :RT23R-S0247-009-K		(PAGE) : 1 of 5 (DATE) : 2023. 01. 17.	
시료 명세 (SAMPLE DESCRIPTION)		:시료에 대한 상세한 정보는 아래와 같음 (The following submitted sample(s) said to be)			
제품명/형식 (NAME/TYPE OF P	RODUCT)	: SAN 350 HM (SAN 350 HM)			
재질 (NAME OF MATER	IAL)	: SAN (SAN)			
시료고유번호 (SAMPLE ID NO.)		: RT23R-S0247-009 (RT23R-S0247-009)			
제품 생산자/공급자 (MANUFACTURER/VENDOR)		: 금호석유화학 (Kumho Petrochemical)			
시료접수일자 (SAMPLE RECEIVED)		: 2023. 01. 10. (Jan. 10, 2023)			
시험일자 (TESTING DATE)		: 2023. 01. 10. ~ 2023. 01. 17. (Jan. 10, 2023 ~ Jan. 17, 2023)			
시험방법 (TEST METHOD)		: 이 시험성적서의 다음 페이지 첨부 (Please see the following page)			
		: 이 시험성적서의 다음 페이지 첨부 (Please see the following page)			
,	비고 (Notes): 1. 이 시험성적서는 제시된 시료 및 시료명으로 시험한 결과로서 유사 대상시료에 적용할 수 없음.				

(The test results presented in this report refer only to the object tested.)
2. 이 시험성적서는 승인없이 복사 사용을 금함.
(This report shall not be reproduced except in full without the written approval of the testing laboratory.)

승인자 (Approved by)

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장준용/기술책임자 (Jade Jang / Lab. Technical Manager)

권한자 (Authorized by)



박병옥/소장 (Bo Park / Lab. General Manager)

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Authenticity check

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TEST REPORT (시 험 성 적 서)

발행면수 (PAGE):2 of 5 발행일자 (DATE):2023.01.17.

시험성적서 <u>번호 (REPORT NO.) : RT23R-S0247-009-K</u>

시료고유번호 (SAMPLE ID NO.) : RT23R-S0247-009 시료명 (SAMPLE DESCRIPTION) : SAN 350 HM

(SAN 350 HM)

시험광곡 (TEST ITEM)단위분석방법검출한계시청결과 (MDL)가드용 (Cadmium, Cd)mg/kg(WINT reference to IEC 62321-5 Edition 1.0 : 2013, by acid digestion and determined by ICP-CES0.5N.D.납 (Lead, Pb)mg/kg(With reference to IEC 62321-5 Edition 1.0 : 2013/MD1 : 2017, by acid digestion and determined by ICP-CES5N.D.추운 (Mercury, Hg)mg/kg(With reference to IEC 62321-5 2013/MD1 : 2017, by acid digestion and determined by UV-VCS Spectrophotometer2N.D.6가 크롱 (Hexavalent Chromium, Cr *')mg/kg(KE 62321-5 2013/MD1 : 2017, by acid digestion and determined by UV-VCS Spectrophotometer8N.D.흘리브름화비패널 (Polybrominated Bipheryts, PB85)mg/kg5N.D.별리만브로모비패널 (TretaB8)mg/kg5N.D.텍타브로모비패널 (TretaB8)mg/kg5N.D.핵사브로모비패널 (Polybrominated Bipheryts, PB85)5N.D.별리만 의로모비패널 (TretaB8)mg/kg5N.D.텍다브로모비패널 (TretaB8)mg/kg5N.D.핵사브로모비패널 (Polybrominated Bipheryts, PBDS)5N.D.로디브로모니패널 (TretaB8)mg/kg5N.D.핵사브로모니패널 (TretaB8)mg/kg5N.D.역다브로모니패널 (TretaB8)mg/kg5N.D.학리브로모니패널 (TretaB8)mg/kg5N.D.학리브로모디패널 (TretaB8)mg/kg5N.D.학리브로모디패널 (TretaB8)mg/kg5N.D.학리브로모디패널 (TretaB8)mg/kg5N.D.학리 프로 모디패널 (TretaB8)mg/kg5N.D.핵감						
카드륨 (Cadmium, Cd) ng/kg With reference to IEC 62321-5 Edition 1.0 : 2013, by acid digestion and determined by ICP-OES 0.5 N.D. 수은 (Mercury, Hg) mg/kg With reference to IEC 62321-7 2 Edition 1.0 : 2017, by acid digestion and determined by ICP-OES 5 N.D. 67) 크롬 (Hexavalent Chromium, Cr ⁶⁺) mg/kg With reference to IEC 62321-7 2 Edition 1.0 : 2017, by akiline/foluene digestion and determined by UV-VIS Spectrophotometer 8 N.D. 결리브롬화비페닐 (Polybrominated Biphenyls, PBBs) The following	시험항목	단위	분석방법	검출한계	시험결과	
기도함 (Ladmiun, Cd)img/kgIEC 62321-5 Edition 1.0 : 2013, by acid digestion and determined by ICP-OES0.5N.D.날 (Lead, Pb)mg/kgWith reference to IEC 62321-4 : 2013/AMD1 : 2017, by acid digestion and determined by ICP-OES2N.D.주은 (Mercury, Hg)mg/kgWith reference to IEC 62321-4 : 2013/AMD1 : 2017, by acid digestion and determined by ICP-OES2N.D.6가 크롬 (Hexavalent Chromium, Cr ⁶⁺)mg/kgWith reference to IEC 62321-7 : 2016 into 1.0 : 2017, by alkaline/toluene digestion and determined by UV-VIS Spectrophotometer8N.D.폴리브롱화비페닐 (Polybrominated Bipheryts, PBBS)U5N.D.모노브로모비페닐 (MonoBB)mg/kg5N.D.텍타브로모비페닐 (PentaBB)mg/kg5N.D.텍타브로모비페닐 (PentaBB)mg/kg5N.D.핵사브로모비페닐 (NonaBB)mg/kg5N.D.프라이브로모니페닐 (MonoBDE)mg/kg5N.D.프라이브로모니페닐 (NonaBB)mg/kg5N.D.프라이브로모니페닐 (MonoBDE)mg/kg5N.D.프라이브로모니페닐 (NonaBB)mg/kg5N.D.프라이브로모디페닐에테르 (NonaBDE)mg/kg5N.D.프라이브로모디페닐에테르 (TriBDE)mg/kg5N.D.프라이브로모디페닐에테르 (NonaBDE)mg/kg5N.D.텍타브로모디페닐에테르 (NonaBDE)mg/kg5N.D.텍타르로모디페닐에테르 (NonaBDE)mg/kg5N.D.텍타브로모디페닐에테르 (NonaBDE)mg/kg5N.D.텍타브로모디페닐에테르 (NonaBDE)mg/kg5N.D.텍타브로모디페닐에테르 (NonaBDE)mg/kg <td< td=""><td>(TEST ITEM)</td><td>(UNIT)</td><td>(TEST METHOD)</td><td>(MDL)</td><td>(RESULT)</td></td<>	(TEST ITEM)	(UNIT)	(TEST METHOD)	(MDL)	(RESULT)	
법 (Lead, Pb)mg/kgdetermined by ICP-OES5N.D.수은 (Mercury, Hg)mg/kgWith reference to IEC 6321-1 * 2013/AMD1 : 2017, by acid digestion and determined by UCP-OES2N.D.6가 크롬 (Hexavalent Chromium, Cr ⁶⁺)mg/kgWith reference to IEC 62321-7 * 2 Edition 1.0 : 2017, by alkaline/toluene digestion and determined by UV-VIS Spectrophotometer8N.D.로리브롬화비페닐 (Polybrominated Biphenty, PBBs)TSN.D.모노브로모비페닐 (InBB)mg/kg5N.D.테라브로모비페닐 (IrBB)mg/kg5N.D.테라브로모비페닐 (IrBB)mg/kg5N.D.비타브로모비페닐 (Polybrominated Biphenty, PBBs)IEC 6321-6 Edition 1.0 : 2017, by alkaline/toluene digestion and determined by UV-VIS Spectrophotometer5N.D.프라이브로모비페닐 (IrBB)mg/kg5N.D.IEC 6321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS5N.D.핵타브로모비페빌 (HexaBB)mg/kg5N.D.IEC 6321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS5N.D.프라이브로모디페빌 (IrenaBB)mg/kg5N.D.IEC 6321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS5N.D.프라이브로모디페빌 (IrenaBB)mg/kg5N.D.IEC 6321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS5N.D.프라이브로모디페틸에테린 (IrenaBDE)mg/kg5N.D.IEC 6321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS5N.D.프라이브로모디페틸에테린 (IrenaBDE)mg/kg5 </td <td>카드뮴 (Cadmium, Cd)</td> <td>mg/kg</td> <td>IEC 62321-5 Edition 1.0 : 2013,</td> <td>0.5</td> <td>N.D.</td>	카드뮴 (Cadmium, Cd)	mg/kg	IEC 62321-5 Edition 1.0 : 2013,	0.5	N.D.	
수은 (Mercury, Hg)mg/kgIEC 62321-4 : 2013/AMD1 : 2017, by acid digestion and determined by ICP-OES2N.D.6가 크롬 (Hexavalent Chromium, Cr ⁶⁺)mg/kgWith reference to IEC 62321-7-2 Edition 1.0 : 2017, by alkaline/foluene digestion and determined by UV-VIS Spectrophotometer8N.D.프리브롭화비페닐 (Polybrominated Bipbenyt- 모노브로모비페닐 (IneB)mg/kg5N.D.트라이브로모비페닐 (TriBB)mg/kg5N.D.텐타브로모비페닐 (TriBB)mg/kg5N.D.렌타브로모비페닐 (PentaBB)mg/kg5N.D.핵사브로모비페닐 (PentaBB)mg/kg5N.D.핵사브로모비페닐 (PentaBB)mg/kg5N.D.핵사브로모비페닐 (NonaBB)mg/kg5N.D.핵사브로모비페닐 (NonaBB)mg/kg5N.D.핵사브로모비페닐 (NonaBB)mg/kg5N.D.테라나로모니페닐 (NonaBB)mg/kg5N.D.테라나로모니페닐 (NonaBB)mg/kg5N.D.테라나로모니페닐 (NonaBB)mg/kg5N.D.테라나로모니페닐에테르 (Folybrominated UPhenyl Ettres, PBDEs)5N.D.프라이브로모디페닐에테르 (NonaBDE)mg/kg5N.D.테트라브로모디페닐에테르 (NonaBDE)mg/kg5N.D.테트라브로모디페닐에테르 (RentaBDE)mg/kg5N.D.테트라브로모디페닐에테르 (HexaBDE)mg/kg5N.D.테트라브로모디페닐에테르 (HexaBDE)mg/kg5N.D.테타나로모디페닐에테르 (NonaBDE)mg/kg5N.D.테트라니로모디페닐에테르 (HexaBDE)mg/kg5N.D.테트라니로모디페닐에테르 (HexaBDE)mg/kg5N.D.테트라니로모디페닐에테르 (H	납 (Lead, Pb)	mg/kg	, .	5	N.D.	
6가 크롬 (Hexavalent Chromium, Cr ⁶⁺)mg/kgIEC 62321-7-2 Edition 1.0 : 2017, by akaline/toluene digestion and determined by UV-VIS Spetrophotometer8N.D.폴리브롬화비페닐 (Polybrominated Bipherry, PBBs)mg/kg5N.D.모노브로모비페닐 (MonoBB)mg/kg5N.D.타리브로모비페닐 (TriBB)mg/kg5N.D.테르라브로모비페닐 (PertaBB)mg/kg5N.D.핸타브로모비페닐 (PertaBB)mg/kg5N.D.핵사브로모비페닐 (PertaBB)mg/kg5N.D.핵사브로모비페닐 (PertaBB)mg/kg5N.D.핵타브로모비페닐 (DecaBB)mg/kg5N.D.도나브로모니페닐 (DecaBB)mg/kg5N.D.물리브롬화디페닐에테르 (Polyborninated Diphenyl Ethers, PBES)5N.D.포노브로모디페닐에테르 (Polyborninated Diphenyl Ethers, 모노브로모디페닐에테르 (TriBDE)mg/kg5N.D.테티라브로모디페닐에테르 (PertaBDE)mg/kg5N.D.테티라브로모디페닐에테르 (PertaBDE)mg/kg5N.D.테티라브로모디페닐에테르 (PertaBDE)mg/kg5N.D.테타르나트로모디페닐에테르 (PertaBDE)mg/kg5N.D.핵사브로모디페닐에테르 (PertaBDE)mg/kg5N.D.핵타브로모디페닐에테르 (PertaBDE)mg/kg5N.D.핵타브로모디페닐에테르 (PertaBDE)mg/kg5N.D.핵타브로모디페닐에테르 (PertaBDE)mg/kg5N.D.핵타브로모디페닐에테르 (PertaBDE)mg/kg5N.D.핵타브로모디페닐에테르 (PertaBDE)mg/kg5N.D.핵타브로모디페닐에테르 (PertaBDE)mg/kg5N.D.핵타브로모디페닐에테르 (PertaBDE)mg/kg5N.D. </td <td>수은 (Mercury, Hg)</td> <td>mg/kg</td> <td>IEC 62321-4 : 2013/AMD1 : 2017, by acid digestion and</td> <td>2</td> <td>N.D.</td>	수은 (Mercury, Hg)	mg/kg	IEC 62321-4 : 2013/AMD1 : 2017, by acid digestion and	2	N.D.	
모도브로모니페닐 (MonoBB)mg/kg		5. 5	IEC 62321-7-2 Edition 1.0 : 2017, by alkaline/toluene digestion and determined by UV-VIS	8	N.D.	
다이브로모비페닐 (DiBB) mg/kg 트라이브로모비페닐 (TriBB) mg/kg 테트라브로모비페닐 (TriBB) mg/kg 테트라브로모비페닐 (TertaBB) mg/kg 핵사브로모비페닐 (TertaBB) mg/kg S N.D. ND Ec 62321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS S N.D. 도나브로모비페닐 (NonaBB) mg/kg The East IIII 실 (DecaBB) mg/kg The Jert Representation IIII (DiBDE) mg/kg The Jert IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	폴리브롬화비페닐 (Polybrominated Biphen	yls, PBBs)			-	
트라이브로모비페닐 (TriBB) mg/kg 테트라브로모비페닐 (TertaBB) mg/kg 펜타브로모비페닐 (PentaBB) mg/kg 핵사브로모비페닐 (HexaBB) mg/kg 핵사브로모비페닐 (HexaBB) mg/kg 핵타브로모비페닐 (IertaBB) mg/kg 핵타브로모비페닐 (NonaBB) mg/kg 노나브로모비페닐 (NonaBB) mg/kg 대카브로모비페닐 (DecaBB) mg/kg 도나브로모디페닐에테르 (Polybrominated Diphenyl Ethers, PBDEs) 5 모노브로모디페닐에테르 (MonoBDE) mg/kg 티트라브로모디페닐에테르 (TriBDE) mg/kg 테트라브로모디페닐에테르 (TertaBDE) mg/kg 테트라브로모디페닐에테르 (PentaBDE) mg/kg 테트라브로모디페닐에테르 (NonaBDE) mg/kg 핵사브로모디페닐에테르 (HexaBDE) mg/kg 핵사브로모디페닐에테르 (HexaBDE) mg/kg 핵사브로모디페닐에테르 (NonaBDE) mg/kg 핵사브로모디페닐에테르 (NonaBDE) mg/kg 핵사브로모디페닐에테르 (NonaBDE) mg/kg 핵나브로모디페닐에테르 (NonaBDE) mg/kg 학나브로모디페닐에테르 (NonaBDE) mg/kg 학나브로모디페닐에테르 (NonaBDE) mg/kg 학나브로모디페닐에테르 (NonaBDE) mg/kg 학나브로모디페닐에테르 (NonaBDE) mg/kg	모노브로모비페닐 (MonoBB)	mg/kg		5	N.D.	
테트라브로모비페닐 (TertaBB)mg/kgWith reference to5N.D.펜타브로모비페닐 (PentaBB)mg/kgIEC 62321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS5N.D.획타브로모비페닐 (HexaBB)mg/kg5N.D.옥타브로모비페닐 (OctaBB)mg/kg5N.D.내카브로모비페닐 (DocaBB)mg/kg5N.D.데카브로모비페닐 (DecaBB)mg/kg5N.D.폴리브롬화디페닐에테르 (Polybrominated Diphenyl Ethers, PBDEs)5N.D.포노브로모디페닐에테르 (MonoBDE)mg/kg5N.D.테트라브로모디페닐에테르 (TriBDE)mg/kg5N.D.테트라브로모디페닐에테르 (PentaBDE)mg/kg5N.D.테타브로모디페닐에테르 (PentaBDE)mg/kg5N.D.헤나브로모디페닐에테르 (HexaBDE)mg/kg5N.D.행사브로모디페닐에테르 (HexaBDE)mg/kg5N.D.핵사브로모디페닐에테르 (NonaBDE)mg/kg5N.D.옥타브로모디페닐에테르 (NonaBDE)mg/kg5N.D.우타브로모디페닐에테르 (NonaBDE)mg/kg5N.D.누나브로모디페닐에테르 (NonaBDE)mg/kg5N.D.누나브로모디페닐에테르 (NonaBDE)mg/kg5N.D.누나브로모디페닐에테르 (NonaBDE)mg/kg5N.D.누나브로모디페닐에테르 (NonaBDE)mg/kg5N.D.누나브로모디페닐에테르 (NonaBDE)mg/kg5N.D.누나브로모디페닐에테르 (NonaBDE)mg/kg5N.D.누나브로모디페닐에테르 (NonaBDE)mg/kg5N.D.누나브로모디페닐에테르 (NonaBDE)mg/kg5N.D.누나브로모디페닐에테르 (NonaBDE)mg/kg5N.D.누나브로모디페닐에테		mg/kg		5	N.D.	
펜타브로모비페닐 (PentaBB) mg/kg IEC 62321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS 5 N.D. 핵사브로모비페닐 (HeptaBB) mg/kg by solvent extraction and determined by GC/MS 5 N.D. 옥타브로모비페닐 (NonaBB) mg/kg 5 N.D. 노나브로모비페닐 (DecaBB) mg/kg 5 N.D. 별리브롭화디페닐에테르 (Polybrominated Diphenyl Ethers, PBDEs) 5 N.D. 포노브로모디페닐에테르 (DiBDE) mg/kg 5 N.D. 타이브로모디페닐에테르 (TriBDE) mg/kg 5 N.D. 테트라브로모디페닐에테르 (PentaBDE) mg/kg 5 N.D. 텍타브로모디페닐에테르 (PentaBDE) mg/kg 5 N.D. 핵사브로모디페닐에테르 (HeptaBDE) mg/kg 5 N.D. 핵사브로모디페닐에테르 (NonaBDE) mg/kg 5 N.D. 핵사브로모디페닐에테르 (HeptaBDE) mg/kg 5 N.D. 핵타브로모디페닐에테르 (NonaBDE) mg/kg 5 N.D. 핵사브로모디페닐에테르 (HeptaBDE) mg/kg 5 N.D. 핵사브로모디페닐에테르 (NonaBDE) mg/kg 5 N.D. 학사브로모디페닐에테르 (NonaBDE) <t< td=""><td></td><td>mg/kg</td><td></td><td>5</td><td>N.D.</td></t<>		mg/kg		5	N.D.	
핵사브로모비페닐 (HexaBB) mg/kg by solvent extraction and determined by GC/MS 5 N.D. 옥타브로모비페닐 (OctaBB) mg/kg 5 N.D. 노나브로모비페닐 (NonaBB) mg/kg 5 N.D. 데카브로모비페닐 (DecaBB) mg/kg 5 N.D. 텔리브롭화디페닐에테르 (Polybrominated Diphenyl Ethers, PBDEs) 5 N.D. 포노브로모디페닐에테르 (MonoBDE) mg/kg 5 N.D. 타이브로모디페닐에테르 (DiBDE) mg/kg 5 N.D. 티르라브로모디페닐에테르 (TriBDE) mg/kg 5 N.D. 테트라브로모디페닐에테르 (PentaBDE) mg/kg 5 N.D. 텍타브로모디페닐에테르 (HexaBDE) mg/kg 5 N.D. 핵사브로모디페닐에테르 (CtaBDE) mg/kg 5 N.D. 핵사브로모디페닐에테르 (HexaBDE) mg/kg 5 N.D. 핵타브로모디페닐에테르 (NonaBDE) mg/kg 5 N.D. 옥타브로모디페닐에테르 (NonaBDE) mg/kg 5 N.D. 학사브로모디페닐에테르 (NonaBDE) mg/kg 5 N.D. 학사브로모디페닐에테르 (NonaBDE) mg/kg 5 N.D. 우타브로모디페닐에테르 (Nona		mg/kg	With reference to	5	N.D.	
해당/kg mg/kg determined by GC/MS 5 N.D. 옥타브로모비페닐 (NonaBB) mg/kg 5 N.D. 노나브로모비페닐 (NonaBB) mg/kg 5 N.D. 데카브로모비페닐 (DecaBB) mg/kg 5 N.D. 프리브롬화디페닐에테르 (Polybrominated Diphenyl Ethers, PBDEs) 5 N.D. 모노브로모디페닐에테르 (DiBDE) mg/kg 5 N.D. 타이브로모디페닐에테르 (TriBDE) mg/kg 5 N.D. 테트라브로모디페닐에테르 (TetraBDE) mg/kg 5 N.D. 테트라브로모디페닐에테르 (HexaBDE) mg/kg 5 N.D. 텍타브로모디페닐에테르 (HeptaBDE) mg/kg 5 N.D. 핵사브로모디페닐에테르 (NonaBDE) mg/kg 5 N.D. 핵타브로모디페닐에테르 (HeptaBDE) mg/kg 5 N.D. 학타브로모디페닐에테르 (NonaBDE) mg/kg 5 N.D. 학타브로모디페닐에테르 (NonaBDE) mg/kg 5 N.D. 학사브로모디페닐에테르 (NonaBDE) mg/kg 5 N.D. 학사브로모디페닐에테르 (NonaBDE) mg/kg 5 N.D. 학사브로모디페닐에테르 (NonaBDE) mg/kg	펜타브로모비페닐 (PentaBB)	mg/kg	· · · · · · · · · · · · · · · · · · ·	5	N.D.	
법다므로도마페일 (Neptabe) Ing/kg S N.D. 옥타브로모비페일 (OctaBB) mg/kg 5 N.D. 도나브로모비페일 (NonaBB) mg/kg 5 N.D. 데카브로모비페일 (DecaBB) mg/kg 5 N.D. 플리브롬화디페일에테르 (Polybrominated Diphenyl Ethers, PBDEs) 5 N.D. 도노브로모디페일에테르 (DiBDE) mg/kg 5 N.D. 타이브로모디페일에테르 (DiBDE) mg/kg 5 N.D. 테트라브로모디페일에테르 (TriBDE) mg/kg 5 N.D. 테트라브로모디페일에테르 (PentaBDE) mg/kg 5 N.D. 텍타브로모디페일에테르 (HeptaBDE) mg/kg 5 N.D. 핵사브로모디페일에테르 (CotaBDE) mg/kg 5 N.D. 학타브로모디페일에테르 (NonaBDE) mg/kg 5 N.D. 옥타브로모디페일에테르 (NonaBDE) mg/kg 5 N.D. 옥타브로모디페일에테르 (NonaBDE) mg/kg 5 N.D. 옥타브로모디페일에테르 (NonaBDE) mg/kg 5 N.D. 오너브로모디페일에테르 (NonaBDE) mg/kg 5 N.D.	헥사브로모비페닐 (HexaBB)	mg/kg	-	5	N.D.	
노나브로모비페닐 (NonaBB)mg/kg5N.D.데카브로모비페닐 (DecaBB)mg/kg5N.D.폴리브롬화디페닐에테르 (Polybrominated Diphenyl Ethers, PBDEs) 5 N.D.모노브로모디페닐에테르 (MonoBDE)mg/kg5N.D.다이브로모디페닐에테르 (DiBDE)mg/kg5N.D.테트라브로모디페닐에테르 (TriBDE)mg/kg5N.D.테트라브로모디페닐에테르 (PentaBDE)mg/kg5N.D.헥사브로모디페닐에테르 (HexaBDE)mg/kg5N.D.헬타브로모디페닐에테르 (HexaBDE)mg/kg5N.D.ବ타브로모디페닐에테르 (MonaBDE)mg/kg5N.D.익나브로모디페닐에테르 (NonaBDE)mg/kg5N.D.우타브로모디페닐에테르 (NonaBDE)mg/kg5N.D.노나브로모디페닐에테르 (NonaBDE)mg/kg5N.D.노나브로모디페닐에테르 (NonaBDE)mg/kg5N.D.노나브로모디페닐에테르 (NonaBDE)mg/kg5N.D.노나브로모디페닐에테르 (NonaBDE)mg/kg5N.D.노나브로모디페닐 이너리를 (NonaBDE)mg/kg5N.D.노나브로모디페닐 이너리를 (NonaBDE)mg/kg5N.D.노나브로모디페닐 이너리를 (NonaBDE)mg/kg5N.D.노나브로모디페닐 이너리를 (NonaBDE)mg/kg5N.D.노나브로모디페닐 이너리를 (NonaBDE)mg/kg5N.D.노나브로모디페닐 이너리를 (NonaBDE)mg/kg5N.D.도너브로모디페닐 이너리를 (NonaBDE)mg/kg5N.D.도너브로모디페닐 이너리를 (NonaBDE)mg/kg5N.D.도너브로모디페닐 이너리를 (NonaBDE)mg/kg5N.D.도너브로모디페닐 이너리를 (NonaBDE)mg/kg5N.D.도너브로모디페닐 이너리를 (NonaBDE	헵타브로모비페닐 (HeptaBB)	mg/kg	determined by GC/MS	5	N.D.	
데카브로모비페닐 (DecaBB)mg/kg5N.D.폴리브롬화디페닐에테르 (Polybrominated Diphenyl Ethers, PBDEs)모노브로모디페닐에테르 (MonoBDE)mg/kg다이브로모디페닐에테르 (DiBDE)mg/kg트라이브로모디페닐에테르 (TriBDE)mg/kg테트라브로모디페닐에테르 (TetraBDE)mg/kg테트라브로모디페닐에테르 (PentaBDE)mg/kg헥사브로모디페닐에테르 (HexaBDE)mg/kg협타브로모디페닐에테르 (HeptaBDE)mg/kg옥타브로모디페닐에테르 (NonaBDE)mg/kg오나브로모디페닐에테르 (NonaBDE)mg/kg오나브로모디페닐에테르 (NonaBDE)mg/kg오나브로모디페닐에테르 (NonaBDE)mg/kg오나브로모디페닐에테르 (NonaBDE)mg/kg오나브로모디페닐에테르 (NonaBDE)mg/kg오나브로모디페닐에테르 (NonaBDE)mg/kg오나 나 보 모디 페닐에테르 (NonaBDE)mg/kg오나 나 보 모디 페닐에 테르 (NonaBDE)mg/kg오나 나 보 모디 페닐에 테르 (NonaBDE)mg/kg오나 나 보 로 모 티 프 이 메닐 데 프 (NonaBDE)mg/kg오나 나 보 로 모 디 페닐에 테르 (NonaBDE)mg/kg오나 나 모 드 아 머 (Page Page Page Page Page Page Page Page	옥타브로모비페닐 (OctaBB)	mg/kg		5	N.D.	
폴리브롬화디페닐에테르 (Polybrominated Diphenyl Ethers, PBDEs) 모노브로모디페닐에테르 (MonoBDE) mg/kg 다이브로모디페닐에테르 (DiBDE) mg/kg 트라이브로모디페닐에테르 (TriBDE) mg/kg 테트라브로모디페닐에테르 (TetraBDE) mg/kg 텍사브로모디페닐에테르 (PentaBDE) mg/kg 헥사브로모디페닐에테르 (HexaBDE) mg/kg 핵사브로모디페닐에테르 (HeptaBDE) mg/kg 직타브로모디페닐에테르 (HeptaBDE) mg/kg 옥타브로모디페닐에테르 (NonaBDE) mg/kg 노나브로모디페닐에테르 (NonaBDE) mg/kg 노나브로모디페닐에테르 (NonaBDE) mg/kg 노나브로모디페닐에테르 (NonaBDE) mg/kg	노나브로모비페닐 (NonaBB)	mg/kg		5	N.D.	
모노브로모디페닐에테르 (MonoBDE) mg/kg 5 N.D. 다이브로모디페닐에테르 (DiBDE) mg/kg 5 $N.D.$ 트라이브로모디페닐에테르 (TriBDE) mg/kg 5 $N.D.$ 테트라브로모디페닐에테르 (PentaBDE) mg/kg 5 $N.D.$ 헥사브로모디페닐에테르 (PentaBDE) mg/kg 5 $N.D.$ 헬타브로모디페닐에테르 (HexaBDE) mg/kg 5 $N.D.$ 입타브로모디페닐에테르 (MonaBDE) mg/kg 5 $N.D.$ 옥타브로모디페닐에테르 (NonaBDE) mg/kg 5 $N.D.$ 노니브로모디페닐에테르 (NonaBDE) mg/kg 5 $N.D.$	데카브로모비페닐 (DecaBB)	mg/kg		5	N.D.	
다이브로모디페닐에테르 (DiBDE) mg/kg 트라이브로모디페닐에테르 (TriBDE) mg/kg 테트라브로모디페닐에테르 (TetraBDE) mg/kg 페타브로모디페닐에테르 (PentaBDE) mg/kg 핵사브로모디페닐에테르 (HexaBDE) mg/kg 히타브로모디페닐에테르 (HexaBDE) mg/kg 한 solvent extraction and determined by GC/MS 5 옥타브로모디페닐에테르 (NonaBDE) mg/kg 노나브로모디페닐에테르 (NonaBDE) mg/kg	폴리브롬화디페닐에테르 (Polybrominated	Diphenyl Ether	rs, PBDEs)			
트라이브로모디페닐에테르 (TriBDE) mg/kg 테트라브로모디페닐에테르 (TetraBDE) mg/kg 펜타브로모디페닐에테르 (PentaBDE) mg/kg 헥사브로모디페닐에테르 (HexaBDE) mg/kg 헨타브로모디페닐에테르 (HexaBDE) mg/kg 히타브로모디페닐에테르 (HexaBDE) mg/kg 옥타브로모디페닐에테르 (NonaBDE) mg/kg 노나브로모디페닐에테르 (NonaBDE) mg/kg	모노브로모디페닐에테르 (MonoBDE)	mg/kg		5	N.D.	
테트라브로모디페닐에테르 (TetraBDE) mg/kg With reference to 5 N.D. 펜타브로모디페닐에테르 (PentaBDE) mg/kg IEC 62321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS 5 N.D. 헬타브로모디페닐에테르 (HeptaBDE) mg/kg by solvent extraction and determined by GC/MS 5 N.D. 옥타브로모디페닐에테르 (OctaBDE) mg/kg 5 N.D. 노나브로모디페닐에테르 (NonaBDE) mg/kg 5 N.D.	다이브로모디페닐에테르 (DiBDE)	mg/kg		5	N.D.	
펜타브로모디페닐에테르 (PentaBDE)mg/kgIEC 62321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS5N.D.헥사브로모디페닐에테르 (HeptaBDE)mg/kgSN.D.직타브로모디페닐에테르 (OctaBDE)mg/kg5N.D.노나브로모디페닐에테르 (NonaBDE)mg/kg5N.D.	트라이브로모디페닐에테르 (TriBDE)	mg/kg]	5	N.D.	
펜타브로모디페닐에테르 (PentaBDE) mg/kg IEC 62321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS 5 N.D. 헥사브로모디페닐에테르 (HeptaBDE) mg/kg by solvent extraction and determined by GC/MS 5 N.D. 옥타브로모디페닐에테르 (OctaBDE) mg/kg 5 N.D. 노나브로모디페닐에테르 (NonaBDE) mg/kg 5 N.D.	테트라브로모디페닐에테르 (TetraBDE)	mg/kg	With reference to	5	N.D.	
헵타브로모디페닐에테르 (HeptaBDE) mg/kg determined by GC/MS 5 N.D. 옥타브로모디페닐에테르 (OctaBDE) mg/kg 5 N.D. 노나브로모디페닐에테르 (NonaBDE) mg/kg 5 N.D.	펜타브로모디페닐에테르 (PentaBDE)	mg/kg		5	N.D.	
업다므로보디페일에데드 (Reptable) Img/kg 5 N.D. 옥타브로모디페일에테르 (OctaBDE) mg/kg 5 N.D. 노나브로모디페일에테르 (NonaBDE) mg/kg 5 N.D.	헥사브로모디페닐에테르 (HexaBDE)	mg/kg	,	5	N.D.	
노나브로모디페닐에테르 (NonaBDE) mg/kg 5 N.D.	헵타브로모디페닐에테르 (HeptaBDE)	mg/kg	determined by GC/MS	5	N.D.	
	옥타브로모디페닐에테르 (OctaBDE)	mg/kg		5	N.D.	
데카브로모디페닐에테르 (DecaBDE) mg/kg 5 N.D.	노나브로모디페닐에테르 (NonaBDE)	mg/kg		5	N.D.	
	데카브로모디페닐에테르 (DecaBDE)	mg/kg		5	N.D.	

Tested by : Jooyeon Lee, Chano Kim, Hayan Park

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Notes: mg/kg = ppm = parts per million (함량 표시 : 백만분의 일) <= Less than (결과 값 이하)

N.D. = Not detected (< MDL, 미검출 – 검출한계 이하)

MDL = Method detection limit (검출한계)

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TEST REPORT (시 험 성 적 서)

시험성적서 번호 (REPORT NO.):RT23R-S0247-009-K

발행면수 (PAGE) : 3 of 5 발행일<u>자</u> (DATE) : 2023. 01. 17.

시료고유번호 (SAMPLE ID NO.) : RT23R-S0247-009 시료명 (SAMPLE DESCRIPTION) : SAN 350 HM

(SAN 350 HM)

시험항목	CAS번호	단위	분석방법	검출한계	시험결과
(TEST ITEM)	(CAS NO.)	(UNIT)	(TEST METHOD)	(MDL)	(RESULT)
디부틸프탈레이트 (Dibutyl phthalate, DBP)	84-74-2	mg/kg		50	N.D.
디에틸헥실프탈레이트 (Di-(2-ethylhexyl) phthalate, DEHP)	117-81-7	mg/kg	With reference to IEC 62321-8 Edition 1.0 : 2017,	50	N.D.
벤질부틸프탈레이트 (Benzyl butyl phthalate, BBP)	85-68-7	mg/kg	by solvent extraction and determined by GC/MS	50	N.D.
디이소부틸프탈레이트 (Diisobutyl phthalate, DIBP)	84-69-5	mg/kg	66/105	50	N.D.

Tested by : Hayan Park

Notes : mg/kg = ppm = parts per million (함량 표시 : 백만분의 일) < = Less than (결과 값 이하) N.D. = Not detected (< MDL, 미검출 – 검출한계 이하) MDL = Method detection limit (검출한계)

* 시료 접수 시 시료 상태 : (View of sample as received)

2)



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TEST REPORT

(시 험 성 적 서)

발행면수 (PAGE):4 of 5 발행일자 (DATE):2023.01.17. 시험성적서 번호 (REPORT NO.) : RT23R-S0247-009-K 시료고유번호 (SAMPLE ID NO.) : RT23R-S0247-009 시료명 (SAMPLE DESCRIPTION) : SAN 350 HM (SAN 350 HM) Flow Chart (IEC62321 Edition 1.0) Receipt Sampling/ Grinding or Cutting Cr PBBs /PBDEs Pb, Cd, Hg Polymers / Electronics Лeta Weigh sample For different material, digest the sample with and add organic Weigh sample Get 50cm² sample solvent appropriate acid^{*1} ¥ Soluble by NM Soxhlet extraction Confirm the tested or solvent extraction Boiling water Add alkaline, Completely dissolved and samples are then add alkaline solution toluene solution totally dissolved^{*2} extraction Heating Concentrate the Cool and filter extract and make up Make up with the extract with organic solvent deionized water * Make up with deionized water nd add diphenyl-carbazide solution Analyzed by ICP-OES Analyzed by GC-MS ¥ Analyzed by UV-VIS Data ¥ Report Remarks : *1 : List of appropriate acid :

!	List of appropriate acid.				
	Material	Acid added for digestion			
	Polymers	HNO ₃ , HCl, HF, H ₂ O ₂ , H3BO ₃			
	Metals	HNO ₃ , HCl, HF			
	Electronics	HNO ₃ , HCl, H ₂ O ₂ , HBF ₄			

*2 : The samples were dissolved totally by pre-conditioning method according to above flow chart.

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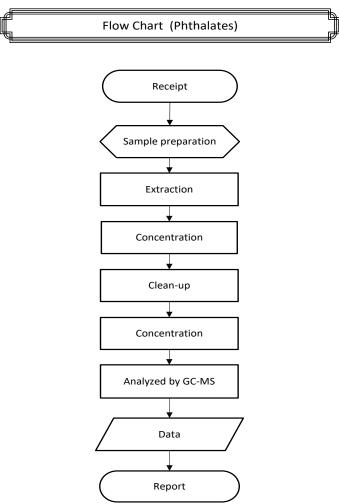
TEST REPORT

(시 험 성 적 서)

발행면수 (PAGE):5 of 5 발행일자 (DATE):2023.01.17.

시험성적서 번호 (REPORT NO.) : RT23R-S0247-009-K 시료고유번호 (SAMPLE ID NO.) : RT23R-S0247-009 시료명 (SAMPLE DESCRIPTION) : SAN 350 HM

(SAN 350 HM)



***** End of Report *****

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